

**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS – PRICING PAGE (1)**

For the purpose of determining the low bidder the City has estimated annual quantities for those items requiring unit prices. The quantities are listed beside each item and the low bidder will be determined by the computations shown on the bid proposal. These quantities are for bid comparison purposes but will also be used during the course of the contract by the City for service, repair and improvement work.

**ESTIMATED ANNUAL QUANTITIES**

Labor for maintenance work, minor improvements and repair of damaged equipment shall be billed at the unit hourly rates bid below for the contract period.

**(A) Hourly rate per Electrician**

<u>From Hr. to Hr</u>	<u>Week Day</u>			
1.) 6:00 AM 6:00 PM	750 hrs @ \$	<u>115.<sup>00</sup></u>	= \$	<u>86,250.<sup>00</sup></u> A
2.) 6:00 PM 6:00 AM	250 hrs @ \$	<u>118.<sup>00</sup></u>	= \$	<u>29,618.<sup>00</sup></u> B
<u>From Hr. to Hr</u>	<u>Saturday</u>			
1.) 6:00 AM 6:00 PM	100 hrs @ \$	<u>118.<sup>00</sup></u>	= \$	<u>11,800.<sup>00</sup></u> C
2.) 6:00 PM 6:00 AM	100 hrs @ \$	<u>118.<sup>00</sup></u>	= \$	<u>11,800.<sup>00</sup></u> D
<u>From Hr. to Hr</u>	<u>Sunday</u>			
1.) 6:00 AM 6:00 PM	25 hrs @ \$	<u>118.<sup>00</sup></u>	= \$	<u>2,950.<sup>00</sup></u> E
2.) 6:00 PM 6:00 AM	25 hrs @ \$	<u>118.<sup>00</sup></u>	= \$	<u>2,950.<sup>00</sup></u> F

**(B) Hourly rate per Laborer:**

<u>From Hr. to Hr</u>	<u>Week Day</u>			
1.) 6:00 AM 6:00 PM	100 hrs @ \$	<u>60.<sup>00</sup></u>	= \$	<u>6,000.<sup>00</sup></u> G
2.) 6:00 PM 6:00 AM	50 hrs @ \$	<u>60.<sup>00</sup></u>	= \$	<u>3,000.<sup>00</sup></u> H
<u>From Hr. to Hr</u>	<u>Saturday</u>			
1.) 6:00 AM 6:00 PM	10 hrs @ \$	<u>60.<sup>00</sup></u>	= \$	<u>600.<sup>00</sup></u> I
2.) 6:00 PM 6:00 AM	10 hrs @ \$	<u>60.<sup>00</sup></u>	= \$	<u>600.<sup>00</sup></u> J
<u>From Hr. to Hr</u>	<u>Sunday</u>			
1.) 6:00 AM 6:00 PM	2 hrs @ \$	<u>60.<sup>00</sup></u>	= \$	<u>120.<sup>00</sup></u> K
2.) 6:00 PM 6:00 AM	2 hrs @ \$	<u>60.<sup>00</sup></u>	= \$	<u>120.<sup>00</sup></u> L

\$ 155,808.<sup>00</sup>  
**TOTAL LABOR / ITEMS A-L**

*Mass Signal*

**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS – PRICING PAGE (2)**

**NOTE:** The quantities listed below are approximate and are to be used for bid comparisons only. In no way should the figures be construed to mean that they represent a guarantee of work to be done. The bid price shall be for the **complete installation** of the bid items listed below **ONLY** and any additional work shall be paid at the above labor rates. All bid prices are to include all materials, labor (including loop detector splicing w/splice kit) and equipment necessary for a complete installation of these bid items, including any sidewalk removal / restoration (one sidewalk panel), raise or lower cabinets and signals or the removal of old debris (foundations, signals...., etc.)

Item	Description - Write Unit Bid Price in Words	Unit	Quantity	Unit Price	Amount
815.001	Traffic Signal Cabinet Foundation - Type P or M  Per Each	EA.	2	\$ <u>500</u>	\$ <u>1000</u>
815.002	Traffic Signal Pull Box 12" x 24"  Per Each	EA.	2	\$ <u>400</u>	\$ <u>800</u>
815.003	Traffic Signal Cable 20 Conductor  Per Each	LF.	1000	\$ <u>2</u>	\$ <u>2000</u>
815.004	Traffic Signal Cable 7 Conductor  Per Each	LF.	1000	\$ <u>1.50</u>	\$ <u>1500</u>
815.005	Traffic Signal Cable Bonding Cable  Per Each	LF.	1000	\$ <u>1.00</u>	\$ <u>1000</u>
815.006	Traffic Signal Cable For Opticom  Per Each	LF.	1000	\$ <u>1.00</u>	\$ <u>1000</u>

*Miss Signal*

**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS - PRICING PAGE (3)**

Item	Description - Write Unit Bid Price in Words	Unit	Quantity	Unit Price	Amount
815.007	Cement Concrete Foundation for Mast Arm	EA.	2	\$ <u>1,200</u>	\$ <u>2,400</u>
	Per Each				
815.008	Cement Concrete Foundation for Post, MHD SD3.030	EA.	2	\$ <u>375</u>	\$ <u>750</u>
	Per Each				
815.009	Loop Detectors in Roadway Installed - Complete	LF.	1000	\$ <u>10</u>	\$ <u>10,000</u>
	Per Each				

\$ 20,450.<sup>00</sup>  
Total Signal Items (815.001 - 815-009)

+ \$ 155,808.<sup>00</sup>  
Total Labor From Pricing Page 1

= \$ 176,258.<sup>00</sup> \*  
Total Bid Price

\*Award to be based on this amount

Mass Signal

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**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS – PRICING PAGE (1)**

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**ESTIMATED ANNUAL QUANTITIES**

Labor for maintenance work, minor improvements and repair of damaged equipment shall be billed at the unit hourly rates bid below for the contract period.

**(A) Hourly rate per Electrician**

<u>From Hr. to Hr</u>	<u>Week Day</u>			
1.) 6:00 AM 6:00 PM	750 hrs @ \$ <u>118.88</u>	= \$	<u>89160</u>	A
2.) 6:00 PM 6:00 AM	250 hrs @ \$ <u>118.88</u>	= \$	<u>29720</u>	B
<u>From Hr. to Hr</u>	<u>Saturday</u>			
1.) 6:00 AM 6:00 PM	100 hrs @ \$ <u>118.88</u>	= \$	<u>11888</u>	C
2.) 6:00 PM 6:00 AM	100 hrs @ \$ <u>118.88</u>	= \$	<u>11888</u>	D
<u>From Hr. to Hr</u>	<u>Sunday</u>			
1.) 6:00 AM 6:00 PM	25 hrs @ \$ <u>118.88</u>	= \$	<u>2972</u>	E
2.) 6:00 PM 6:00 AM	25 hrs @ \$ <u>118.88</u>	= \$	<u>2972</u>	F

**(B) Hourly rate per Laborer:**

<u>From Hr. to Hr</u>	<u>Week Day</u>			
1.) 6:00 AM 6:00 PM	100 hrs @ \$ <u>63.00</u>	= \$	<u>6300</u>	G
2.) 6:00 PM 6:00 AM	50 hrs @ \$ <u>63.00</u>	= \$	<u>3150</u>	H
<u>From Hr. to Hr</u>	<u>Saturday</u>			
1.) 6:00 AM 6:00 PM	10 hrs @ \$ <u>63.00</u>	= \$	<u>630</u>	I
2.) 6:00 PM 6:00 AM	10 hrs @ \$ <u>63.00</u>	= \$	<u>630</u>	J
<u>From Hr. to Hr</u>	<u>Sunday</u>			
1.) 6:00 AM 6:00 PM	2 hrs @ \$ <u>63.00</u>	= \$	<u>126</u>	K
2.) 6:00 PM 6:00 AM	2 hrs @ \$ <u>63.00</u>	= \$	<u>126</u>	L

\$ 159562.00

TOTAL LABOR / ITEMS A-L

P.R.T.

**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS – PRICING PAGE (2)**

**NOTE:** The quantities listed below are approximate and are to be used for bid comparisons only. In no way should the figures be construed to mean that they represent a guarantee of work to be done. The bid price shall be for the **complete installation** of the bid items listed below **ONLY** and any additional work shall be paid at the above labor rates. All bid prices are to include all materials, labor (including loop detector splicing w/splice kit) and equipment necessary for a complete installation of these bid items, including any sidewalk removal / restoration (one sidewalk panel), raise or lower cabinets and signals or the removal of old debris (foundations, signals....., etc.)

Item	Description - Write Unit Bid Price in Words	Unit	Quantity	Unit Price	Amount
815.001	Traffic Signal Cabinet Foundation - Type P or M <u>five hundred dollars</u> Per Each	EA.	2	\$ <u>500.00</u>	\$ <u>1000</u>
815.002	Traffic Signal Pull Box 12" x 24" <u>four hundred dollars</u> Per Each	EA.	2	\$ <u>400.00</u>	\$ <u>800</u>
815.003	Traffic Signal Cable 20 Conductor <u>two dollars</u> Per Each	LF.	1000	\$ <u>2.00</u>	\$ <u>2000</u>
815.004	Traffic Signal Cable 7 Conductor <u>one dollar fifty cents</u> Per Each	LF.	1000	\$ <u>1.50</u>	\$ <u>1500</u>
815.005	Traffic Signal Cable Bonding Cable <u>one dollar</u> Per Each	LF.	1000	\$ <u>1.00</u>	\$ <u>1000</u>
815.006	Traffic Signal Cable For Opticom <u>one dollar</u> Per Each	LF.	1000	\$ <u>1.00</u>	\$ <u>1000</u>

P.R.T.

**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS - PRICING PAGE (3)**

Item	Description - Write Unit Bid Price in Words	Unit	Quantity	Unit Price	Amount
815.007	Cement Concrete Foundation for Mast Arm <i>one thousand dollars</i> Per Each	EA.	2	<i>\$ 1000.00</i>	<i>\$ 2000</i>
815.008	Cement Concrete Foundation for Post, MHD SD3.030 <i>four hundred dollars</i> Per Each	EA.	2	<i>\$ 400.00</i>	<i>\$ 800</i>
815.009	Loop Detectors in Roadway Installed - Complete <i>seven dollars eighty cents</i> Per Each	LF.	1000	<i>\$ 7.80</i>	<i>\$ 7800</i>

*\$ 17 900.00*  
Total Signal Items (815.001 – 815-009)

+ *\$ 159 562*  
Total Labor From Pricing Page 1

= *\$ 177 462.00* \*  
Total Bid Price

\*Award to be based on this amount

*P.R.T.*

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**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS – PRICING PAGE (1)**

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**ESTIMATED ANNUAL QUANTITIES**

Labor for maintenance work, minor improvements and repair of damaged equipment shall be billed at the unit hourly rates bid below for the contract period.

**(A) Hourly rate per Electrician**

<u>From Hr. to Hr</u>	<u>Week Day</u>			
1.) 6:00 AM 6:00 PM	750 hrs @ \$ <u>108</u>	= \$	<u>81,000.00</u>	<u>A</u>
2.) 6:00 PM 6:00 AM	250 hrs @ \$ <u>108</u>	= \$	<u>27,000.00</u>	<u>B</u>
<u>From Hr. to Hr</u>	<u>Saturday</u>			
1.) 6:00 AM 6:00 PM	100 hrs @ \$ <u>108</u>	= \$	<u>10,800.00</u>	<u>C</u>
2.) 6:00 PM 6:00 AM	100 hrs @ \$ <u>108</u>	= \$	<u>10,800.00</u>	<u>D</u>
<u>From Hr. to Hr</u>	<u>Sunday</u>			
1.) 6:00 AM 6:00 PM	25 hrs @ \$ <u>108</u>	= \$	<u>2,700.00</u>	<u>E</u>
2.) 6:00 PM 6:00 AM	25 hrs @ \$ <u>108</u>	= \$	<u>2,700.00</u>	<u>F</u>

**(B) Hourly rate per Laborer:**

<u>From Hr. to Hr</u>	<u>Week Day</u>			
1.) 6:00 AM 6:00 PM	100 hrs @ \$ <u>62</u>	= \$	<u>6,200.00</u>	<u>G</u>
2.) 6:00 PM 6:00 AM	50 hrs @ \$ <u>62</u>	= \$	<u>3,100.00</u>	<u>H</u>
<u>From Hr. to Hr</u>	<u>Saturday</u>			
1.) 6:00 AM 6:00 PM	10 hrs @ \$ <u>62</u>	= \$	<u>620.00</u>	<u>I</u>
2.) 6:00 PM 6:00 AM	10 hrs @ \$ <u>62</u>	= \$	<u>620.00</u>	<u>J</u>
<u>From Hr. to Hr</u>	<u>Sunday</u>			
1.) 6:00 AM 6:00 PM	2 hrs @ \$ <u>62</u>	= \$	<u>124.00</u>	<u>K</u>
2.) 6:00 PM 6:00 AM	2 hrs @ \$ <u>62</u>	= \$	<u>124.00</u>	<u>L</u>

\$ 145,788.00  
TOTAL LABOR / ITEMS A-L

Dagle

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Item	Description - Write Unit Bid Price in Words	Unit	Quantity	Unit Price	Amount
815.001	Traffic Signal Cabinet Foundation - Type P or M <u>One Thousand Six Hundred Dollars and No Cents</u> Per Each	EA.	2	<u>\$ 1,600.00</u>	<u>\$ 3,200.00</u>
815.002	Traffic Signal Pull Box 12" x 24" <u>Four Hundred Dollars and No Cents</u> Per Each	EA.	2	<u>\$ 400.00</u>	<u>\$ 800.00</u>
815.003	Traffic Signal Cable 20 Conductor <u>Four Dollars and No Cents</u> Per Each	LF.	1000	<u>\$ 4.00</u>	<u>\$ 4,000.00</u>
815.004	Traffic Signal Cable 7 Conductor <u>Two Dollars and No Cents</u> Per Each	LF.	1000	<u>\$ 2.00</u>	<u>\$ 2,000.00</u>
815.005	Traffic Signal Cable Bonding Cable <u>One Dollar and No Cents</u> Per Each	LF.	1000	<u>\$ 1.00</u>	<u>\$ 1,000.00</u>
815.006	Traffic Signal Cable For Opticom <u>Two Dollars and No Cents</u> Per Each	LF.	1000	<u>\$ 2.00</u>	<u>\$ 2,000.00</u>

Dagle



**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS - PRICING PAGE (3)**

Item	Description - Write Unit Bid Price in Words	Unit	Quantity	Unit Price	Amount
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815.007	Cement Concrete Foundation for Mast Arm <u>One Thousand Five Hundred Dollars and No Cents</u> Per Each	EA.	2	\$ <u>1,500.00</u>	\$ <u>3,000.00</u>
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815.008	Cement Concrete Foundation for Post, MHD SD3.030 <u>Five Hundred Dollars and No Cents</u> Per Each	EA.	2	\$ <u>500.00</u>	\$ <u>1,000.00</u>
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815.009	Loop Detectors in Roadway Installed - Complete <u>Twelve Dollars and Twenty Cents</u> Per Each	LF.	1000	\$ <u>12.20</u>	\$ <u>12,200.00</u>
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\$ 29,200.00  
Total Signal Items (815.001 – 815-009)

+ \$ 145,788.00  
Total Labor From Pricing Page 1

= \$ 174,988.00 \*  
Total Bid Price

\*Award to be based on this amount

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Dagle

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**(A) Hourly rate per Electrician**

<u>From Hr. to Hr</u>	<u>Week Day</u>			
1.) 6:00 AM 6:00 PM	750 hrs @ \$	115.00	= \$	86,250.00 A
2.) 6:00 PM 6:00 AM	250 hrs @ \$	115.00	= \$	28,750.00 B
<u>From Hr. to Hr</u>	<u>Saturday</u>			
1.) 6:00 AM 6:00 PM	100 hrs @ \$	115.00	= \$	11,500.00 C
2.) 6:00 PM 6:00 AM	100 hrs @ \$	115.00	= \$	11,500.00 D
<u>From Hr. to Hr</u>	<u>Sunday</u>			
1.) 6:00 AM 6:00 PM	25 hrs @ \$	120.00	= \$	3,000.00 E
2.) 6:00 PM 6:00 AM	25 hrs @ \$	120.00	= \$	3,000.00 F

**(B) Hourly rate per Laborer:**

<u>From Hr. to Hr</u>	<u>Week Day</u>			
1.) 6:00 AM 6:00 PM	100 hrs @ \$	60.00	= \$	6,000.00 G
2.) 6:00 PM 6:00 AM	50 hrs @ \$	60.00	= \$	3,000.00 H
<u>From Hr. to Hr</u>	<u>Saturday</u>			
1.) 6:00 AM 6:00 PM	10 hrs @ \$	60.00	= \$	600.00 I
2.) 6:00 PM 6:00 AM	10 hrs @ \$	60.00	= \$	600.00 J
<u>From Hr. to Hr</u>	<u>Sunday</u>			
1.) 6:00 AM 6:00 PM	2 hrs @ \$	60.00	= \$	120.00 K
2.) 6:00 PM 6:00 AM	2 hrs @ \$	60.00	= \$	120.00 L

\$ 154,440.00  
TOTAL LABOR / ITEMS A-L

CMS

**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS – PRICING PAGE (2)**

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Item	Description - Write Unit Bid Price in Words	Unit	Quantity	Unit Price	Amount
815.001	Traffic Signal Cabinet Foundation - Type P or M	EA.	2		
	Per Each			\$ 1,500.00	\$ 3,000.00
815.002	Traffic Signal Pull Box 12" x 24"	EA.	2		
	Per Each			\$ 400.00	\$ 800.00
815.003	Traffic Signal Cable 20 Conductor	LF.	1000		
	Per Each			\$ 3.00	\$ 3,000.00
815.004	Traffic Signal Cable 7 Conductor	LF.	1000		
	Per Each			\$ 1.00	\$ 1,000.00
815.005	Traffic Signal Cable Bonding Cable	LF.	1000		
	Per Each			\$ 1.00	\$ 1,000.00
815.006	Traffic Signal Cable For Opticom	LF.	1000		
	Per Each			\$ 1.00	\$ 1,000.00

CMS

**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS - PRICING PAGE (3)**

Item	Description - Write Unit Bid Price in Words	Unit	Quantity	Unit Price	Amount
815.007	Cement Concrete Foundation for Mast Arm	EA.	2	\$ 1,900.00	\$ 3,800.00
	Per Each				
815.008	Cement Concrete Foundation for Post, MHD SD3.030	EA.	2	\$ 400.00	\$ 800.00
	Per Each				
815.009	Loop Detectors in Roadway Installed - Complete	LF.	1000	\$ 10.00	\$ 10,000.00
	Per Each				

	24,400.00	
	\$	
	<u>Total Signal Items (815.001 – 815-009)</u>	
	154,440.00	
+	\$	
	<u>Total Labor From Pricing Page 1</u>	
	178,840.00	
=	\$	*
	<u>Total Bid Price</u>	

\*Award to be based on this amount

CMS

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**(A) Hourly rate per Electrician**

<u>From Hr. to Hr</u>	<u>Week Day</u>		
1.) 6:00 AM 6:00 PM	750 hrs @ \$ <u>175.00</u>	= \$ <u>131,250.00</u>	<u>A</u>
2.) 6:00 PM 6:00 AM	250 hrs @ \$ <u>195.00</u>	= \$ <u>48,750.00</u>	<u>B</u>
<u>From Hr. to Hr</u>	<u>Saturday</u>		
1.) 6:00 AM 6:00 PM	100 hrs @ \$ <u>195.00</u>	= \$ <u>19,500.00</u>	<u>C</u>
2.) 6:00 PM 6:00 AM	100 hrs @ \$ <u>195.00</u>	= \$ <u>19,500.00</u>	<u>D</u>
<u>From Hr. to Hr</u>	<u>Sunday</u>		
1.) 6:00 AM 6:00 PM	25 hrs @ \$ <u>195.00</u>	= \$ <u>4,875.00</u>	<u>E</u>
2.) 6:00 PM 6:00 AM	25 hrs @ \$ <u>195.00</u>	= \$ <u>4,875.00</u>	<u>F</u>

**(B) Hourly rate per Laborer:**

<u>From Hr. to Hr</u>	<u>Week Day</u>		
1.) 6:00 AM 6:00 PM	100 hrs @ \$ <u>105.00</u>	= \$ <u>10,500.00</u>	<u>G</u>
2.) 6:00 PM 6:00 AM	50 hrs @ \$ <u>130.00</u>	= \$ <u>6,500.00</u>	<u>H</u>
<u>From Hr. to Hr</u>	<u>Saturday</u>		
1.) 6:00 AM 6:00 PM	10 hrs @ \$ <u>130.00</u>	= \$ <u>1,300.00</u>	<u>I</u>
2.) 6:00 PM 6:00 AM	10 hrs @ \$ <u>130.00</u>	= \$ <u>1,300.00</u>	<u>J</u>
<u>From Hr. to Hr</u>	<u>Sunday</u>		
1.) 6:00 AM 6:00 PM	2 hrs @ \$ <u>130.00</u>	= \$ <u>260.00</u>	<u>K</u>
2.) 6:00 PM 6:00 AM	2 hrs @ \$ <u>130.00</u>	= \$ <u>260.00</u>	<u>L</u>

\$ 248,870.00

TOTAL LABOR / ITEMS A-L

*Coviello*

**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS – PRICING PAGE (2)**

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815.002	Traffic Signal Pull Box 12" x 24" <u>\$1,900.00</u> Per Each	EA.	2	<u>\$ 1,900.00</u>	<u>\$ 3,800.00</u>
815.003	Traffic Signal Cable 20 Conductor <u>\$8.00</u> Per Each	LF.	1000	<u>\$ 8.00</u>	<u>\$ 8,000.00</u>
815.004	Traffic Signal Cable 7 Conductor <u>\$5.00</u> Per Each	LF.	1000	<u>\$ 5.00</u>	<u>\$ 5,000.00</u>
815.005	Traffic Signal Cable Bonding Cable <u>\$3.00</u> Per Each	LF.	1000	<u>\$ 3.00</u>	<u>\$ 3,000.00</u>
815.006	Traffic Signal Cable For Opticom <u>\$5.00</u> Per Each	LF.	1000	<u>\$ 5.00</u>	<u>\$ 5,000.00</u>

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**TRAFFIC SIGNAL MAINTENANCE, REPAIR & IMPROVEMENTS - PRICING PAGE (3)**

Item	Description - Write Unit Bid Price in Words	Unit	Quantity	Unit Price	Amount
815.007	Cement Concrete Foundation for Mast Arm <u>\$12,500.00</u> Per Each	EA.	2	<u>\$ 12,500.00</u>	<u>\$ 25,000.00</u>
815.008	Cement Concrete Foundation for Post, MHD SD3.030 <u>\$2,500.00</u> Per Each	EA.	2	<u>\$2,500.00</u>	<u>\$ 5,000.00</u>
815.009	Loop Detectors in Roadway Installed - Complete <u>\$18.00</u> Per Each	LF.	1000	<u>\$ 18.00</u>	<u>\$ 18,000.00</u>

\$ 82,700.00  
Total Signal Items (815.001 - 815-009)

+ \$ 248,870.00  
Total Labor From Pricing Page 1

= \$ 331,570.00 \*  
Total Bid Price

\*Award to be based on this amount

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\*\* All materials, supplies, parts, etc., not specifically listed above, and required to be procured by the Contractor for the faithful performance of this contract may be charged to the City of Worcester at a rate not to exceed 10% over the contractor's net cost.